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**PERSONAL AND CONFIDENTIAL**

To: Examiner Kagnew Gebreyesus                  From: Gary Baker  
  
USPTO, Group 1656  

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Fax: 571 273-2937 and x8300                  Date: August 13, 2008  

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Phone:                  Pages: 2  

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Re: USSN 10/569,656                  our file: 54A-000510US  

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 Urgent     For Review     Please Comment     Please Reply     Please Recycle

Dear Examiner Gebreyesus,

Attached is a proposed amendment to Independent claim 1 for discussion in the above-cited case.

I note that the new limitations focus claim 1 on the invention taught and practiced. The percent identity and required G:C base pair at position 10:28 distinguish the composition and provide enabling structural/functional aspects in light of the original specification.

I have left a message on your phone requesting an interview in this case. Please grant the interview and let me know what would be a good time for you.

Thanks,

Gary Baker 510 769-3510

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Appl. No. : 10/563,656  
Applicant : J. Christopher Anderson, et al.  
Filed : June 22, 2006  
TC/A.U. : 1656  
Examiner : Kagnew H. Gebreyesus  
Docket No. : 54A-000510US  
Customer No. : 22798

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Amendment for Discussion in Interview

1. (Proposed amendment) A composition comprising an orthogonal glutamyl-tRNA (glutamyl O-tRNA) derived from one or more archaeal tRNAs, wherein the glutamyl O-tRNA comprises a polynucleotide sequence at least 80% identical to SEQ ID NO.: 67, and wherein the glutamyl O-tRNA comprises a G:C base pair at position corresponding to 10:28; and wherein the glutamyl O-tRNA suppresses in the presence of a glutamyl-tRNA synthetase derived from an RS selected from the group consisting of: an *Archaeoglobus fulgidus* synthetase, a *Methanosarcina mazei* synthetase, a *Methanobacterium thermoautotrophicum* synthetase, and a *Pyrococcus horikoshii* synthetase.

Dear Examiner Gebreysus,

I believe the cited consensus O-tRNA Seq 67 ranges from about 92% to 97% identity (not counting the selector anticodon) with the tested functional O-tRNAs. G:C at 10:28 is a consensus structure for Gln O-tRNAs associated with functionally.

Gary

